



Hesselby Slott Castle powered by a robust wireless solution from D-Link



Hesselby Slott was built in the mid-17th century. The castle was owned and inhabited by the Bonde family until 1931. The castle is now owned by the musicians Tomas Ledin and Torbjörn Blomqvist, who provide conference facilities at the castle, with the capacity to host 150 people in 12 meeting rooms in six different buildings. Their vision is for Hesselby Slott to become famous as a "Palace of Music".

Requirement

Modern conference facilities nowadays demand a wireless solution for guests who want to use computers, tablet PCs and smartphones in connection with conferences and accommodation. The total renovation requirement facing the new owners was considerable, and they therefore wanted to get the most of out every Swedish krona invested.

Hesselby Slott wanted the wireless network to cover all rooms in all buildings, and for guests to be able to move between the different buildings and rooms without losing their Internet access on a tablet PC or computer. The biggest challenge in setting up wireless access in the castle was the building's listed status, which means there are a number of restrictions on external modifications to the buildings. Nor did they want to lay cables between the buildings, but preferred wireless links.

Furthermore, the castle consists of a number of thick stone walls, which make it difficult for the wi-fi signals to reach everywhere. Another challenge involved capacity and redundancy. At the same time there was a requirement that the whole network should work smoothly, be managed from one place and have the capacity and facility for the simple expansion of the wireless network in line with the castle's expansion.

D-Link's Solution

Together with the reseller Data-PC Service, D-Link delivered a total solution with 36 (47) wireless access points, wireless links between buildings, antennas, switches, a firewall and a central web-based administration. The castle's incoming fibre access was divided into two networks: an internal network and an external guest network for conference guests. The guest network was in turn divided into a number of different virtual LANs in order to load-balance capacity and enhance security.

The 36 access points that were installed can handle 802.11n with dual-band and are discreetly coloured, white or grey, in order that

they are not visible in the listed environment. The solution to achieve total wireless coverage was to locate the access points strategically on the castle buildings, such as in the two towers in the wings, and to supplement them with external antennas.

Most of the access points installed at the castle have 802.11n Dual-Band and Power over Ethernet. Dual-Band technology provides two frequencies and can provide wireless speeds up to 2 x 300 Mbps.

"We liked D-Link's concept of a total solution in which we have one contact, one support number and one place where the whole solution is managed. We also liked the way the access points and antennas were discreet, while at the same time everything worked really well together and there was a high level of security."

Kent
Hesselby Slott.

Sandelius,

Benefits for Hesselby Slott

D-Link is one of the few networking companies that supplies a total package in the field of wireless networks, including antennae and software for central administration and settings.

D-Link's objective is to work in close proximity with both end customer and partner in order to develop customised solutions. For Hesselby Slott, it means a local number to call for help from D-Link's Swedish support team in Haparanda. All products are tested and work optimally together, which made the installation smooth and cost-efficient. This, combined with the fact that D-Link's products offer excellent value for money, provides an unbeatable Total Cost of Ownership.



The network administrator at the castle now simply manages all access points centrally via the web-based interface. It is also possible to use Telnet or one of D-Link's software programs AP Manager or D-View.

All in all, both capacity and coverage exceeded expectations for Hesselby Slott, as they were already aware of the difficulties presented by a listed building. At the same time, the castle now has a solution that is future-compatible and easy to scale up in connection with expansion.

AP Features

- WMM (Wi-Fi Multimedia) for important wireless transmissions such as voice traffic and streaming media
- 802.1Q VLAN
- Virtual SSIDs can be linked to a VLAN network
- Quality of Service (QoS)

- Encryption with WEP/WPA/WPA2
- Rogue Access Point detection
- Facilities for several SSIDs.
- MAC address filtering and hidden SSID, can be used to enhance security and restrict external access to the internal network



5	DGS-1210-10P	Gigabit Smart Switch with Fibre Uplinks	Switches
4	DES-1210-08P	Fast Ethernet Smart Switch with Fibre Uplinks	
1	DWS-3024L	Gigabit Wireless PoE Switch	APs
12	DWL-3200AP/E	Wireless PoE Access Point 108Mbps	
25	DWL-8600AP	Unified Wireless N Simultaneous Dual-Band PoE Access Point	
8	DWL-3500AP	Unified Wireless PoE Access Point	
2	DAP-2360	Wireless N PoE Access Point	Antenna
2	ANT24-0800	Antenna/8dBi H360/V15 rev SMA outdoor	
12	ANT24-0801	Antenna/8.5dBi H70 V70 rev SMA in-outdoor	
2	ANT24-1600N	2.4 GHz Dual Polarisation Directional Antenna	



For More information : www.dlink.com

D-Link European Headquarters. D-Link (Europe) Ltd., D-Link House, Abbey Road, Park Royal, London, NW10 7BX. Specifications are subject to change without notice. D-Link is a registered trademark of D-Link Corporation and its overseas subsidiaries. All other trademarks belong to their respective owners. ©2014 D-Link Corporation. All rights reserved. E&OE